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ABSTRACT OF THE DISCLOSURE

5 A transmitter 1 and a receiver 2 for a millimeter band signal are provided. A direct wave 4 transmitted from transmitter 1 is received by receiver 2. At the same time, a signal wave from transmitter 1 is received by receiver 2 as reflected wave 5 reflected by a ceiling 3. In other words, direct wave and reflected wave 5 are simultaneously received by receiver 2. Therefore, good signal reception is achieved even when a propagation path for direct wave 4 is obstructed.